

MAGNETIC ACTUATOR UNDER PIEZOELECTRIC CONTROL

ABSTRACT

5 A magnetic actuator for adjusting a force on a load is presented herein. The
magnetic actuator comprises a first actuating part that includes a first magnetic element
and a second magnetic element, a second actuating part that includes a third magnetic
element and a piezoelectric element attached to the first and second magnetic elements to
relatively displace the first and second magnetic elements. The first actuating part and
10 said second actuating part are constructed and arranged to generate a magnetic force
between both actuating parts along a first direction with a load being attached to one of the
first and second actuating parts.